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<141> 2000-09-25

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TECH CENTER 1600/2900

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	Lys His Cys Ile Pro Glu Lys Asn His Thr Leu Gln Ala Asp Ser Tyr	
	310 315 320 325	
50	tct cct aat tta cca aaa agt acc aca aaa gca gca aaa atg atg aac	1064
	Ser Pro Asn Leu Pro Lys Ser Thr Thr Lys Ala Ala Lys Met Met Asn	
	330 335 340	
	caa caa agg aca aaa atg gaa atc aaa gaa tct tct tcc ttt gac ttt	1112
	Gln Gln Arg Thr Lys Met Glu Ile Lys Glu Ser Ser Ser Phe Asp Phe	
	345 350 355	

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	Arg	Thr	Ser	Glu	Ile	Ser	Ala	Lys	Glu	Glu	Leu	Val	Leu	His	Pro	Ala	
			360					365					370				
	aaa	tca	agc	act	tct	ttt	gac	ttt	ctg	gag	cta	aat	tac	agt	ttt	gac	1208
	Lys	Ser	Ser	Thr	Ser	Phe	Asp	Phe	Leu	Glu	Leu	Asn	Tyr	Ser	Phe	Asp	
		375					380					385					
10	aaa	aat	gct	gac	aca	acc	atg	aaa	tgg	cag	aca	aag	gca	ttt	cca	ata	1256
	Lys	Asn	Ala	Asp	Thr	Thr	Met	Lys	Trp	Gln	Thr	Lys	Ala	Phe	Pro	Ile	
		390					395				400					405	
	gtt	ggg	gag	cct	ctt	cag	aag	cat	caa	agt	ttg	gat	ttg	ggc	tct	ctt	1304
	Val	Gly	Glu	Pro	Leu	Gln	Lys	His	Gln	Ser	Leu	Asp	Leu	Gly	Ser	Leu	
				410						415					420		
	ttg	ttt	gag	gga	tgt	tct	aat	tct	aaa	cct	gta	aat	gca	gca	gga	aga	1352
	Leu	Phe	Glu	Gly	Cys	Ser	Asn	Ser	Lys	Pro	Val	Asn	Ala	Ala	Gly	Arg	
			425						430					435			
20	tat	ttt	aat	tca	aag	gtg	cca	ata	aca	cgg	acc	aaa	tca	act	cct	ttt	1400
	Tyr	Phe	Asn	Ser	Lys	Val	Pro	Ile	Thr	Arg	Thr	Lys	Ser	Thr	Pro	Phe	
			440					445					450				
	gaa	ttg	ata	cag	cag	aga	gaa	acc	aag	gag	gtg	gac	agc	aag	gaa	aac	1448
	Glu	Leu	Ile	Gln	Gln	Arg	Glu	Thr	Lys	Glu	Val	Asp	Ser	Lys	Glu	Asn	
		455					460					465					
30	ttt	tct	tat	ttg	gaa	tct	caa	cca	cat	gat	tct	tgt	ttt	gta	gag	atg	1496
	Phe	Ser	Tyr	Leu	Glu	Ser	Gln	Pro	His	Asp	Ser	Cys	Phe	Val	Glu	Met	
		470				475				480						485	
	cag	gct	caa	aaa	gta	atg	cat	ggt	tct	tca	gca	gaa	ctg	aat	tat	tca	1544
	Gln	Ala	Gln	Lys	Val	Met	His	Val	Ser	Ser	Ala	Glu	Leu	Asn	Tyr	Ser	
				490					495						500		
	ctg	cca	tat	gac	tct	aaa	cac	caa	ata	cgt	aat	gcc	tct	aat	gta	aag	1592
	Leu	Pro	Tyr	Asp	Ser	Lys	His	Gln	Ile	Arg	Asn	Ala	Ser	Asn	Val	Lys	
			505					510					515				
40	cac	cat	gac	tct	agt	gct	ctt	ggt	gta	tat	tct	tac	ata	cct	tta	gtg	1640
	His	His	Asp	Ser	Ser	Ala	Leu	Gly	Val	Tyr	Ser	Tyr	Ile	Pro	Leu	Val	
			520					525					530				
	gaa	aat	cct	tat	ttt	tca	tca	tgg	cct	cca	agt	ggt	acc	agt	tct	aag	1688
	Glu	Asn	Pro	Tyr	Phe	Ser	Ser	Trp	Pro	Pro	Ser	Gly	Thr	Ser	Ser	Lys	
		535					540					545					
50	atg	tct	ctt	gat	tta	cct	gag	aag	caa	gat	gga	act	gtt	ttt	cct	tct	1736
	Met	Ser	Leu	Asp	Leu	Pro	Glu	Lys	Gln	Asp	Gly	Thr	Val	Phe	Pro	Ser	
		550				555					560					565	
	tct	ctg	ttg	cca	aca	tcc	tct	aca	tcc	ctc	ttc	tct	tat	tac	aat	tca	1784
	Ser	Leu	Leu	Pro	Thr	Ser	Ser	Thr	Ser	Leu	Phe	Ser	Tyr	Tyr	Asn	Ser	
				570						575					580		

cat agt tct tta tca ctg aat tct cca acc aat att tcc tca cta ttg 1832
 His Ser Ser Leu Ser Leu Asn Ser Pro Thr Asn Ile Ser Ser Leu Leu
 585 590 595

aac cag gag tca gct gta cta gca act gct cca agg ata gat gat gaa 1880
 Asn Gln Glu Ser Ala Val Leu Ala Thr Ala Pro Arg Ile Asp Asp Glu
 600 605 610

10 atc ccc cct cca ctt cct gta cgg aca cct gaa tca ttt att gtg gtt 1928
 Ile Pro Pro Pro Leu Pro Val Arg Thr Pro Glu Ser Phe Ile Val Val
 615 620 625

gag gaa gct gga gaa ttc tca cca aat gtt ccc aaa tcc tta tcc tca 1976
 Glu Glu Ala Gly Glu Phe Ser Pro Asn Val Pro Lys Ser Leu Ser Ser
 630 635 640 645

gct gtg aag gta aaa att gga aca tca ctg gaa tgg ggt gga aca tct 2024
 Ala Val Lys Val Lys Ile Gly Thr Ser Leu Glu Trp Gly Gly Thr Ser
 650 655 660

20 gaa cca aag aaa ttt gat gac tct gtg ata ctt aga cca agc aag agt 2072
 Glu Pro Lys Lys Phe Asp Asp Ser Val Ile Leu Arg Pro Ser Lys Ser
 665 670 675

gta aaa ctc cga agt cct aaa tca ggt aaa aat ttc tct tgg ctt 2117
 Val Lys Leu Arg Ser Pro Lys Ser Gly Lys Asn Phe Ser Trp Leu
 680 685 690

30 tagatgacat ttagccctaa gattggaaga atgggttcggt aagtttagag taattcactt 2177
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 20 25 30
 Arg Gln Ser Thr Lys Tyr Lys Ala Asp Lys Thr Tyr Pro Thr Thr Val
 35 40 45

50 Ala Glu Asn Ala Lys Asn Ile Lys Lys Asn Arg Tyr Lys Asp Ile Leu
 50 55 60
 Pro Tyr Asp Tyr Ser Arg Val Glu Leu Ser Leu Ile Thr Ser Asp Glu
 65 70 75 80
 Asp Ser Ser Tyr Ile Asn Ala Asn Phe Ile Lys Gly Val Tyr Gly Pro
 85 90 95

	Lys	Ala	Tyr	Ile	Ala	Thr	Gln	Gly	Pro	Leu	Ser	Thr	Thr	Leu	Leu	Asp	
				100					105					110			
	Phe	Trp	Arg	Met	Ile	Trp	Glu	Tyr	Ser	Val	Leu	Ile	Ile	Val	Met	Ala	
			115					120					125				
	Cys	Met	Glu	Tyr	Glu	Met	Gly	Lys	Lys	Lys	Cys	Glu	Arg	Tyr	Trp	Ala	
		130					135					140					
10	Glu	Pro	Gly	Glu	Met	Gln	Leu	Glu	Phe	Gly	Pro	Phe	Ser	Val	Ser	Cys	
	145					150					155					160	
	Glu	Ala	Glu	Lys	Arg	Lys	Ser	Asp	Tyr	Ile	Ile	Arg	Thr	Leu	Lys	Val	
					165					170					175		
	Lys	Phe	Asn	Ser	Glu	Thr	Arg	Thr	Ile	Tyr	Gln	Phe	His	Tyr	Lys	Asn	
				180					185					190			
20	Trp	Pro	Asp	His	Asp	Val	Pro	Ser	Ser	Ile	Asp	Pro	Ile	Leu	Glu	Leu	
			195					200					205				
	Ile	Trp	Asp	Val	Arg	Cys	Tyr	Gln	Glu	Asp	Asp	Ser	Val	Pro	Ile	Cys	
		210					215					220					
	Ile	His	Cys	Ser	Ala	Gly	Cys	Gly	Arg	Thr	Gly	Val	Ile	Cys	Ala	Ile	
	225					230					235					240	
	Val	Asp	Tyr	Thr	Trp	Met	Leu	Leu	Lys	Asp	Gly	Ile	Ile	Pro	Glu	Asn	
					245					250					255		
30	Phe	Ser	Val	Phe	Ser	Leu	Ile	Arg	Glu	Met	Arg	Thr	Gln	Arg	Pro	Ser	
				260					265					270			
	Leu	Val	Gln	Thr	Gln	Glu	Gln	Tyr	Glu	Leu	Val	Tyr	Asn	Ala	Val	Leu	
			275					280					285				
	Glu	Leu	Phe	Lys	Arg	Gln	Met	Asp	Val	Ile	Arg	Asp	Lys	His	Ser	Gly	
		290					295					300					
40	Thr	Glu	Ser	Gln	Ala	Lys	His	Cys	Ile	Pro	Glu	Lys	Asn	His	Thr	Leu	
	305					310					315					320	
	Gln	Ala	Asp	Ser	Tyr	Ser	Pro	Asn	Leu	Pro	Lys	Ser	Thr	Thr	Lys	Ala	
					325					330					335		
	Ala	Lys	Met	Met	Asn	Gln	Gln	Arg	Thr	Lys	Met	Glu	Ile	Lys	Glu	Ser	
				340					345					350			
50	Ser	Ser	Phe	Asp	Phe	Arg	Thr	Ser	Glu	Ile	Ser	Ala	Lys	Glu	Glu	Leu	
			355					360					365				
	Val	Leu	His	Pro	Ala	Lys	Ser	Ser	Thr	Ser	Phe	Asp	Phe	Leu	Glu	Leu	
		370					375					380					
	Asn	Tyr	Ser	Phe	Asp	Lys	Asn	Ala	Asp	Thr	Thr	Met	Lys	Trp	Gln	Thr	
	385					390					395					400	

Lys Ala Phe Pro Ile Val Gly Glu Pro Leu Gln Lys His Gln Ser Leu
 405 410 415
 Asp Leu Gly Ser Leu Leu Phe Glu Gly Cys Ser Asn Ser Lys Pro Val
 420 425 430
 Asn Ala Ala Gly Arg Tyr Phe Asn Ser Lys Val Pro Ile Thr Arg Thr
 435 440 445
 10 Lys Ser Thr Pro Phe Glu Leu Ile Gln Gln Arg Glu Thr Lys Glu Val
 450 455 460
 Asp Ser Lys Glu Asn Phe Ser Tyr Leu Glu Ser Gln Pro His Asp Ser
 465 470 475 480
 Cys Phe Val Glu Met Gln Ala Gln Lys Val Met His Val Ser Ser Ala
 485 490 495
 20 Glu Leu Asn Tyr Ser Leu Pro Tyr Asp Ser Lys His Gln Ile Arg Asn
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 Ala Ser Asn Val Lys His His Asp Ser Ser Ala Leu Gly Val Tyr Ser
 515 520 525
 Tyr Ile Pro Leu Val Glu Asn Pro Tyr Phe Ser Ser Trp Pro Pro Ser
 530 535 540
 Gly Thr Ser Ser Lys Met Ser Leu Asp Leu Pro Glu Lys Gln Asp Gly
 545 550 555 560
 30 Thr Val Phe Pro Ser Ser Leu Leu Pro Thr Ser Ser Thr Ser Leu Phe
 565 570 575
 Ser Tyr Tyr Asn Ser His Ser Ser Leu Ser Leu Asn Ser Pro Thr Asn
 580 585 590
 Ile Ser Ser Leu Leu Asn Gln Glu Ser Ala Val Leu Ala Thr Ala Pro
 595 600 605
 40 Arg Ile Asp Asp Glu Ile Pro Pro Pro Leu Pro Val Arg Thr Pro Glu
 610 615 620
 Ser Phe Ile Val Val Glu Glu Ala Gly Glu Phe Ser Pro Asn Val Pro
 625 630 635 640
 Lys Ser Leu Ser Ser Ala Val Lys Val Lys Ile Gly Thr Ser Leu Glu
 645 650 655
 50 Trp Gly Gly Thr Ser Glu Pro Lys Lys Phe Asp Asp Ser Val Ile Leu
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 Arg Pro Ser Lys Ser Val Lys Leu Arg Ser Pro Lys Ser Gly Lys Asn
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				20					25						30		
	Arg	Gln	Ser	Thr	Lys	Tyr	Lys	Ala	Asp	Lys	Ile	Tyr	Pro	Thr	Thr	Val	
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	Ala	Gln	Arg	Pro	Lys	Asn	Ile	Lys	Lys	Asn	Arg	Tyr	Lys	Asp	Ile	Leu	
		50					55					60					
20	Pro	Tyr	Asp	His	Ser	Leu	Val	Glu	Leu	Ser	Leu	Leu	Thr	Ser	Asp	Glu	
	65					70					75					80	
	Asp	Ser	Ser	Tyr	Ile	Asn	Ala	Ser	Phe	Ile	Lys	Gly	Val	Tyr	Gly	Pro	
					85					90					95		
	Lys	Ala	Tyr	Ile	Ala	Thr	Gln	Gly	Pro	Leu	Ser	Thr	Thr	Leu	Leu	Asp	
				100					105					110			
	Phe	Trp	Arg	Met	Ile	Trp	Glu	Tyr	Arg	Ile	Leu	Val	Ile	Val	Met	Ala	
			115					120						125			
30	Cys	Met	Glu	Phe	Glu	Met	Gly	Lys	Lys	Lys	Cys	Glu	Arg	Tyr	Trp	Ala	
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	Glu	Pro	Gly	Glu	Thr	Gln	Leu	Gln	Phe	Gly	Pro	Phe	Ser	Ile	Ser	Cys	
	145					150					155					160	
	Glu	Ala	Glu	Lys	Lys	Lys	Ser	Asp	Tyr	Lys	Ile	Arg	Thr	Leu	Lys	Ala	
					165					170					175		
40	Lys	Phe	Asn	Asn	Glu	Thr	Arg	Ile	Ile	Tyr	Gln	Phe	His	Tyr	Lys	Asn	
				180					185					190			
	Trp	Pro	Asp	His	Asp	Val	Pro	Ser	Ser	Ile	Asp	Pro	Ile	Leu	Gln	Leu	
			195					200					205				
	Ile	Trp	Asp	Met	Arg	Cys	Tyr	Gln	Glu	Asp	Asp	Cys	Val	Pro	Ile	Cys	
		210					215					220					
	Ile	His	Cys	Ser	Ala	Gly	Cys	Gly	Arg	Thr	Gly	Val	Ile	Cys	Ala	Val	
50		225				230					235					240	
	Asp	Tyr	Thr	Trp	Met	Leu	Leu	Lys	Asp	Gly	Ile	Ile	Pro	Lys	Asn	Phe	
					245					250					255		
	Ser	Val	Phe	Asn	Leu	Ile	Gln	Glu	Met	Arg	Thr	Gln	Arg	Pro	Ser	Leu	
				260					265					270			

	Val	Gln	Thr	Gln	Glu	Gln	Tyr	Glu	Leu	Val	Tyr	Ser	Ala	Val	Leu	Glu	
					275			280					285				
	Leu	Phe	Lys	Arg	His	Met	Asp	Val	Ile	Ser	Asp	Asn	His	Leu	Gly	Arg	
		290					295					300					
	Glu	Ile	Gln	Ala	Gln	Cys	Ser	Ile	Pro	Glu	Gln	Ser	Leu	Thr	Val	Glu	
	305					310					315					320	
10	Ala	Asp	Ser	Cys	Pro	Leu	Asp	Leu	Pro	Lys	Asn	Ala	Met	Arg	Asp	Val	
					325					330					335		
	Lys	Thr	Thr	Asn	Gln	His	Ser	Lys	Gln	Gly	Ala	Glu	Ala	Glu	Ser	Thr	
				340					345					350			
	Gly	Gly	Ser	Ser	Leu	Gly	Leu	Arg	Thr	Ser	Thr	Met	Asn	Ala	Glu	Glu	
			355					360					365				
20	Glu	Leu	Val	Leu	His	Ser	Ala	Lys	Ser	Ser	Pro	Ser	Phe	Asn	Cys	Leu	
	370						375					380					
	Glu	Leu	Asn	Cys	Gly	Cys	Asn	Asn	Lys	Ala	Val	Ile	Thr	Arg	Asn	Gly	
	385					390					395					400	
	Gln	Ala	Arg	Ala	Ser	Pro	Val	Val	Gly	Glu	Pro	Leu	Gln	Lys	Tyr	Gln	
					405					410					415		
	Ser	Leu	Asp	Phe	Gly	Ser	Met	Leu	Phe	Gly	Ser	Cys	Pro	Ser	Ala	Leu	
				420					425					430			
30	Pro	Ile	Asn	Thr	Ala	Asp	Arg	Tyr	His	Asn	Ser	Lys	Gly	Pro	Val	Lys	
			435					440					445				
	Arg	Thr	Lys	Ser	Thr	Pro	Phe	Glu	Leu	Ile	Gln	Gln	Arg	Lys	Thr	Asn	
		450					455					460					
	Asp	Leu	Ala	Val	Gly	Asp	Gly	Phe	Ser	Cys	Leu	Glu	Ser	Gln	Leu	His	
	465					470					475					480	
40	Glu	His	Tyr	Ser	Leu	Arg	Glu	Leu	Gln	Val	Gln	Arg	Val	Ala	His	Val	
					485					490					495		
	Ser	Ser	Glu	Glu	Leu	Asn	Tyr	Ser	Leu	Pro	Gly	Ala	Cys	Asp	Ala	Ser	
				500					505					510			
	Cys	Val	Pro	Arg	His	Ser	Pro	Gly	Ala	Leu	Arg	Val	His	Leu	Tyr	Thr	
			515					520					525				
50	Ser	Leu	Ala	Glu	Asp	Pro	Tyr	Phe	Ser	Ser	Ser	Pro	Pro	Asn	Ser	Ala	
	530						535					540					
	Asp	Ser	Lys	Met	Ser	Phe	Asp	Leu	Pro	Glu	Lys	Gln	Asp	Gly	Ala	Thr	
	545					550					555					560	
	Ser	Pro	Gly	Ala	Leu	Leu	Pro	Ala	Ser	Ser	Thr	Thr	Ser	Phe	Phe	Tyr	
					565					570					575		

Ser Asn Pro His Asp Ser Leu Val Met Asn Thr Leu Thr Ser Phe Ser
 580 585 590
 Pro Pro Leu Asn Gln Glu Thr Ala Val Glu Ala Pro Ser Arg Arg Thr
 595 600 605
 Asp Asp Glu Ile Pro Pro Pro Leu Pro Glu Arg Thr Pro Glu Ser Phe
 610 615 620
 10 Ile Val Val Glu Glu Ala Gly Glu Pro Ser Pro Arg Val Thr Glu Ser
 625 630 635 640
 Leu Pro Leu Val Val Thr Phe Gly Ala Ser Pro Glu Cys Ser Gly Thr
 645 650 655
 Ser Glu Met Lys Ser His Asp Ser Val Gly Phe Thr Pro Ser Lys Asn
 660 665 670
 20 Val Lys Leu Arg Ser Pro Lys Ser Asp Arg His Gln Asp Gly Ser Pro
 675 680 685
 Pro Pro Pro Leu Pro Glu Arg Thr Leu Glu Ser Phe Phe Leu Ala Asp
 690 695 700
 Glu Asp Cys Ile Gln Ala Gln Ala Val Gln Thr Ser Ser Thr Ser Tyr
 705 710 715 720
 Pro Glu Thr Thr Glu Asn Ser Thr Ser Ser Lys Gln Thr Leu Arg Thr
 725 730 735
 30 Pro Gly Lys Ser Phe Thr Arg Ser Lys Ser Leu Lys Ile Phe Arg Asn
 740 745 750
 Met Lys Lys Ser Val Cys Asn Ser Ser Ser Pro Ser Lys Pro Thr Glu
 755 760 765
 Arg Val Gln Pro Lys Asn Ser Ser Ser Phe Leu Asn Phe Gly Phe Gly
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17/17

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